

Appln. Serial No. 10/791,414
Amendment Dated November 9, 2007
Reply to Office Action Mailed August 9, 2007

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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1. (Currently Amended) A method for maintaining secure network connections, the method
2 comprising:
3 detecting a change of address from an old address to a new address associated with a first
4 network element;
5 updating at least one first security configuration at the first network element;
6 transmitting at least one secure message from the first network element to a second
7 network element, wherein the at least one secure message ~~comprises information associated with~~
8 ~~the change of address; and~~ contains both the old address and the new address,
9 updating wherein the old address and the new address in the at least one secure message
10 enables at least one second security configuration at the second network element ~~based at least in~~
11 ~~part on the at least one secure message to be updated.~~
- 1 2. (Original) The method according to claim 1, wherein a lookup of security associations is
2 not dependent on any destination address.
- 1 3. (Original) The method according to claim 1, wherein the first network element is a
2 mobile client and the second network element is a security gateway.
- 1 4. (Original) The method according to claim 1, wherein the first network element and the
2 second network element are part of a virtual private network (VPN).
- 1 5. (Original) The method according to claim 1, wherein communications between the first
2 network element and the second network element are based on a security architecture for the
3 internet protocol (IPsec).
- 1 6. (Original) The method according to claim 5, wherein at least part of the communications
2 between the first network element and the second network element are based on an internet
3 security association and key management protocol (ISAKMP).

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1 7. (Currently Amended) The method according to claim 6, ~~wherein~~ further comprising the
2 second network element ~~identifies~~ identifying at least one security association based on at least
3 one cookie field in the at least one secure message.

1 8. (Cancelled)

1 9. (Currently Amended) At least one processor readable ~~carrier~~ medium for storing a
2 computer program of instructions configured to be readable by at least one processor for
3 instructing the at least one processor to execute a computer process for performing the method as
4 recited in claim 1.

1 10. (Currently Amended) A method for maintaining secure network connections, the method
2 comprising:

3 duplicating, ~~between a second network element and at~~ a third network element,
4 information associated with a secure network connection between a first network element and
5 ~~[[the]]~~ a second network element, wherein a lookup of security associations associated with the
6 secure network connection is not dependent on any destination address; and

7 in response to detecting failure of the second network element, replacing the second
8 network element with the third network element in the secure network connection with the first
9 network element.

1 11. (Currently Amended) The method according to claim 10 further comprising sending at
2 least one secure message from the third network element to the first network element to notify
3 the first network element that the secure network connection will be taken over by the third
4 network element.

Appln. Serial No. 10/791,414
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1 12. (Original) A method for maintaining secure network connections, the method
2 comprising:
3 configuring a plurality of security gateways such that a lookup of security associations is
4 not dependent on any destination address; and
5 sharing at least one security association among the plurality of security gateways.

1 13. (Cancelled)

1 14. (Currently Amended) The ~~system~~ first security server according to claim ~~[[13]]~~ 22,
2 wherein a lookup of security associations is not dependent on any destination address.

1 15. – 16. (Cancelled)

1 17. (Currently Amended) The ~~system~~ first security server according to claim ~~[[13]]~~ 22,
2 wherein communications between the ~~first network element~~ mobile client and the ~~second~~
3 ~~network element~~ first security server are based on a security architecture for the internet protocol
4 (IPsec).

1 18. – 19. (Cancelled)

1 20. (New) The method of claim 10, further comprising:
2 during life of the secure network connection between the first and second network
3 elements, the third network element receiving information relating to one or more security
4 associations of the secure network connection from the second network element.

1 21. (New) The method of claim 20, wherein the first network element is a mobile client, and
2 the second and third network elements are security servers.

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- 1 22. (New) A first security server comprising:
- 2 a transceiver to receive information relating to at least one security association of a secure
- 3 network connection between a mobile client and a second security server; and
- 4 a processor module to:
- 5 monitor operation of the second security server;
- 6 in response to detecting failure of the second security server, send a message to
- 7 the mobile client that the first security server is taking over the secure network connection; and
- 8 communicate with the mobile client using the at least one security association
- 9 over the secure network connection between the first security server and the mobile client.